The following were developed by Robert Conkle, Chester, West Virginia, United States. Donated by Roger D. Way, Cornell University, New York State Agric. Exp. Station, Department of Horticulture, Geneva, New York 14456-0462, United States. Received 06/24/1985.

PI 589160. Malus domestica Borkh.

Conkle Jonathan 2-4-4-4. Pedigree - Large-fruited mutation of Jonathan; type 1, 2-4-4-4 Diploid-Tetraploid Chimera; discovered about 1943; never introduced. Comments:: Fruit: large. Produces diploid gametes; a periclinal cytochimera 2-4-4-4. Tree: less fruitful than parent. Chimeral nature determined at the New York State Agr. Exp. Sta., Geneva, NY; accessioned in 1950 by this Sta. 2-4-4-4 cytochimera of Jonathan.

The following were donated by Roger D. Way, Cornell University, New York State Agric. Exp. Station, Department of Horticulture, Geneva, New York 14456-0462, United States. Received 06/24/1985.

PI 589161. Malus sieboldii (Regel) Rehder

Collected in Unknown. Japan; introduced into US in 1856. Comments:: Flowers: single; 20 mm wide; white; late blooming. Fruit: 30 mm; light red; oval. Tree: annual bearer. Leaves: some lobed, some not. Toringo Crab is sieboldii; cutleaf crab is Toringoides.

PI 589162. Malus coronaria (L.) Miller

Glabrata. Collected in United States. North Carolina to Alabama. Pedigree - Seed collected 1912; introduced by Arnold Arboretum. Comments:: Flowers: single; 30 mm; pink changing to white. Fruit: 30 mm; yellow-green; shape oblate. Tree: weak growing; very light cropping; leaves lobed, dark greenish red, sparse, early senescence. Not especially ornamental.

The following were developed by Willard L. Bates, Stevensville, Pennsylvania, United States. Donated by Roger D. Way, Cornell University, New York State Agric. Exp. Station, Department of Horticulture, Geneva, New York 14456-0462, United States. Received 06/24/1985.

PI 589163. Malus domestica Borkh.

Bates Lobo. Pedigree - Lobo bud mutation. Comments:: Fruit: large; irregular. A periclinal cytochimera 2-2-2-4; tends to revert to diploid; chimeral nature determined at the New York State Agr. Exp. Sta., Geneva, NY; accessioned in 1952 and 1953 by this Sta. Tree: vigorous; somewhat spreading; stout branches; somewhat alternate bearing habit. No commercial plantings, academic interest only. Tetraploid Lobo.

The following were donated by Roger D. Way, Cornell University, New York State Agric. Exp. Station, Department of Horticulture, Geneva, New York 14456-0462, United States. Received 06/24/1985.

PI 589164. Malus prunifolia (Willd.) Borkh.

DE 229. Comments:: See description of Malus prunifolia GMAL 1575.

The following were developed by Aomori Apple Expt. Sta., Kuroishi, Aomori, Japan. Donated by Roger D. Way, Cornell University, New York State Agric. Exp. Station, Department of Horticulture, Geneva, New York 14456-0462, United States. Received 06/24/1985.

PI 589165. Malus domestica Borkh.

Golden Melon. Pedigree - Golden Delicious x Indo; cross 1931; first fruit 1938; named 1948; published 1949. Comments:: Fruit: large, 65-80mm; skin light green to yellow, attractive; shape round-conic;